California CyanoHAB Network



A Workgroup of the California Water Quality Monitoring Council



Mission of the CCHAB Network

The mission of the CCHAB Network is to work towards the development and maintenance of a comprehensive, coordinated program to identify and address the causes and impacts of cyanobacteria and harmful algal blooms (HABs) in California.

Brief History

- Severe blooms on the Klamath reservoirs
- Severe blooms at Pinto Lake
- Lack of:
 - State & federal standards
 - Leadership
 - Programs
 - Understanding of the toxicology and related threats
- Development of a working group of affected parties

What is the CyanoHAB Network?

- Developed originally in 2006
- Promote coordination, monitoring, and management of harmful algal bloom
- Coordinated network composed of federal, tribal, state, regional, and local agencies
- To develop a statewide framework to address cyanoHABs in California's freshwater ecosystems.

Who are CCHAB Members?

- Coordinated efforts
 - Tribes
 - Water Boards
 - CDPH
 - OEHHA
 - US EPA
 - Some water managers and local agencies (city and county)
 - Fish & Wildlife laboratories
 - Researchers

Accomplishments

Products

- 2008 & 2010 Draft Voluntary Guidance
- 2012 -OEHHA Report on Suggested Action Levels for Blue Green Algae Toxins (Cyanotoxins)
- 2016 Guidance Document Updates
 - Decision Tree & Narrative
 - CyanoHAB Trigger Levels to protect human health
 - Signage
- Web portal
- Coordination and Reporting
 - Improved coordination
 - Online reporting and bloom tracking

Coordination with SWAMP Efforts

- Education & Public Awareness
 - Trainings (through SWAMP)
 - Media
 - Public Inquiries
 - Web site
 - Web Portal

Next Steps

- Complete the 2016 Voluntary Guidance Document Updates
- Better education & outreach
- Better coordination with both State and local agencies to respond to blooms
- Identify long-term resources and funding mechanisms to implement & maintain program
- Support SWAMP efforts
 - Bloom identification
 - HABs contact list

Challenges

- Inconsistent response to blooms
 - Difficulty identifying the lead
 - No uniform triggers
 - No coordinated communication protocols
 - Who needs to be notified & when?
- Limited education and outreach
- Inconsistent messaging

Challenges - continued

- Incomplete roster of participants
- Lack of resources
 - Funding
 - Staff
- Need a coordinated and comprehensive program (may require legislation)

Suggested Solutions

- A formal, funded State Program that brings together the many agencies with roles in addressing HABs
- Sampling program
- Mandatory uniform response to blooms
- Dedicated resources to education and outreach efforts
- Research to better understand blooms
 - When and where they are likely to occur

Water Quality Monitoring Council

How can the Monitoring Council help?

- ➤ Support efforts toward:
 - A statewide coordinate program for dedicated staff resources
 - Resources for sampling and tracking blooms
 - Triggers for posting water
 - Reporting
 - Public notification
- Facilitate coordination with state and local agencies
- >Support research to address and prevent blooms

Upcoming events

 September 29, 2016 – Next CCHAB Network Meeting



Questions and Comments



